**NAME------------------------------------------------------------------------ Dates---------------------------**

**INDEX--------------------------------------------- Candidate Sign ---------------------------------**

**443/2**

**AGRICULTURE**

**PAPER2**

**2HOURS**

**END OF TERM 1 EXAMINATION 2020**

**FORM 4**

**Instruction to Candidates**

* Write your name and index number in the space provided at the top of this page.
* Sign and write the date of the examination in the space provided above.
* C) This paper consist of three section A, B. and c .
* Answer all questions in section A and B.
* Answer any two questions in section c.
* Answers should be written in the space provided.
* Candidates should check the question paper to ascertain that all pages are printed as indicated and that no questions are missing.
* Candidates should answer the question in English.

**FOR EXAMINER’S USE ONLY**

|  |  |  |  |
| --- | --- | --- | --- |
| SECTION | QUESTION | MAXIMUM SCORE | CANDIDATES SCORE |
| A | 1-16 | 30 | 30 |
| B | 17-20 | 20 | 20 |
| C |  | 20 | 20 |
|  |  | 20 | 20 |
|  | TOTAL SCORE | 90 |  |

**SECTION A 30MRKS**

Answer all the questions in this sections in the spaces provided

1. Name the most appropriate tools used in the following operations

a) Removing metal chippings in file (1mrk )

................................................................................................................................................................................................................................................................................................................................................

b) Cutting wood along grains (1mrk)

................................................................................................................................................................................................................................................................................................................................................

c) Branding (1mrks)

................................................................................................................................................................................................................................................................................................................................................

2. State four characteristic of Boran cattle (2mrks)

................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................

3. State two functions of a useful bacteria in livestock production (1mrk)

........................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................

4. Name four function of lipid in an animal body (2mrks)

................................................................................................................................................................................................................................................................................................................................................

................................................................................................................................................................................................................................................................................................................................................

5. State two ways of reducing friction in moving part of farm tool (1mrk)

................................................................................................................................................................................................................................................................................................................................................

................................................................................................................................................................................................................................................................................................................................................

6. Outline four types of fence that can be used in mixed farm (2mrks)

................................................................................................................................................................................................................................................................................................................................................

................................................................................................................................................................................................................................................................................................................................................

7. Name three methods of out breeding in livestock production ((1 ½ marks)

................................................................................................................................................................................................................................................................................................................................................

................................................................................................................................................................................................................................................................................................................................................

8. Give two reasons for tailing in sheep production (1mrk)

................................................................................................................................................................................................................................................................................................................................................

9. Name any five internal parts of cow‘s udder (2 ½ marks)

................................................................................................................................................................................................................................................................................................................................................

................................................................................................................................................................................................................................................................................................................................................

................................................................................................................................................................................................................................................................................................................................................

10. Give five ways of transmitting livestock diseases (2 ½ marks)

................................................................................................................................................................................................................................................................................................................................................

................................................................................................................................................................................................................................................................................................................................................

........................................................................................................................................................................ 11. Give four features of improved grain bin (2mrks)

................................................................................................................................................................................................................................................................................................................................................

................................................................................................................................................................................................................................................................................................................................................

12. Give three types of calving complications (1 ½ mrks)

................................................................................................................................................................................................................................................................................................................................................

................................................................................................................................................................................................................................................................................................................................................

13. State four advantages of zero grazing as a grazing system (2mrks)

................................................................................................................................................................................................................................................................................................................................................

................................................................................................................................................................................................................................................................................................................................................

................................................................................................................................................................................................................................................................................................................................................

14. State two functions of a queen bee in a colony (1mrk)

................................................................................................................................................................................................................................................................................................................................................

................................................................................................................................................................................................................................................................................................................................................

15. Name four symptoms of anaplasmasis in livestock(2mrks

................................................................................................................................................................................................................................................................................................................................................

................................................................................................................................................................................................................................................................................................................................................

16 .What do you understand by the following terms as used I animal production .

1. Coponisation(1mrk)

................................................................................................................................................................................................................................................................................................................................................

b) Bullock (1mrk)

................................................................................................................................................................................................................................................................................................................................................

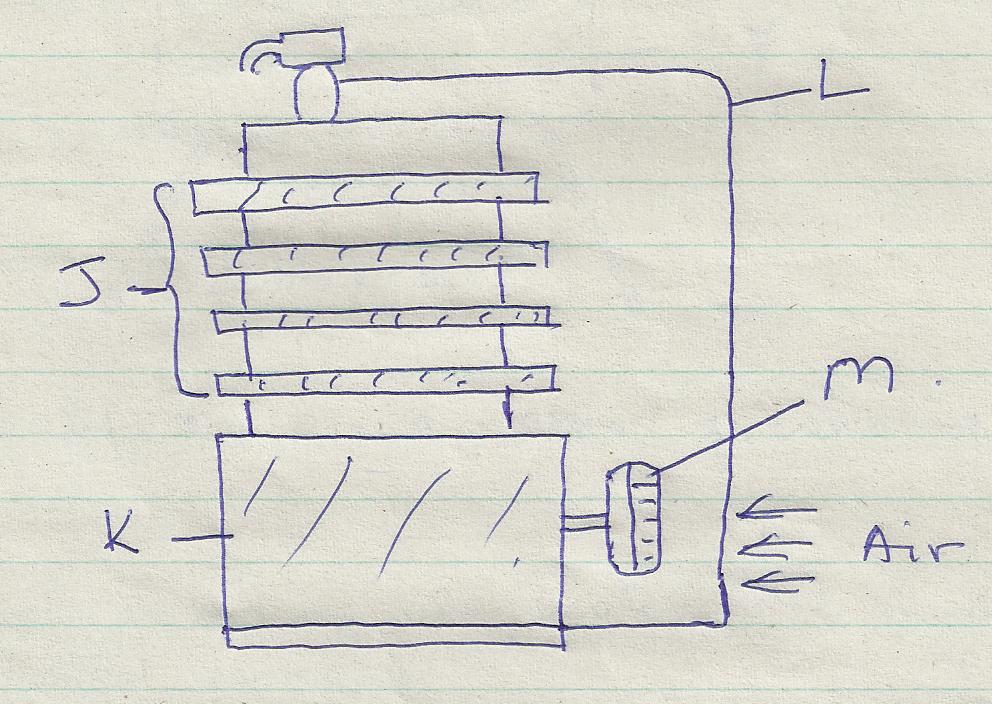
c. Epistasis(1mrk)

................................................................................................................................................................................................................................................................................................................................................

**SECTION B (20Mrks)**

Answer all the questions in the spaces provided

17. Below is a diagram of a cooling system .Study it and answer the questions that follow



1. Identify the type of cooling system illustrated (1mrk

........................................................................................................................................................................................................................................................................................................................

b . Name parts labelled J, K , L and M (2mrks)

................................................................................................................................................................................................................................................................................................................................................

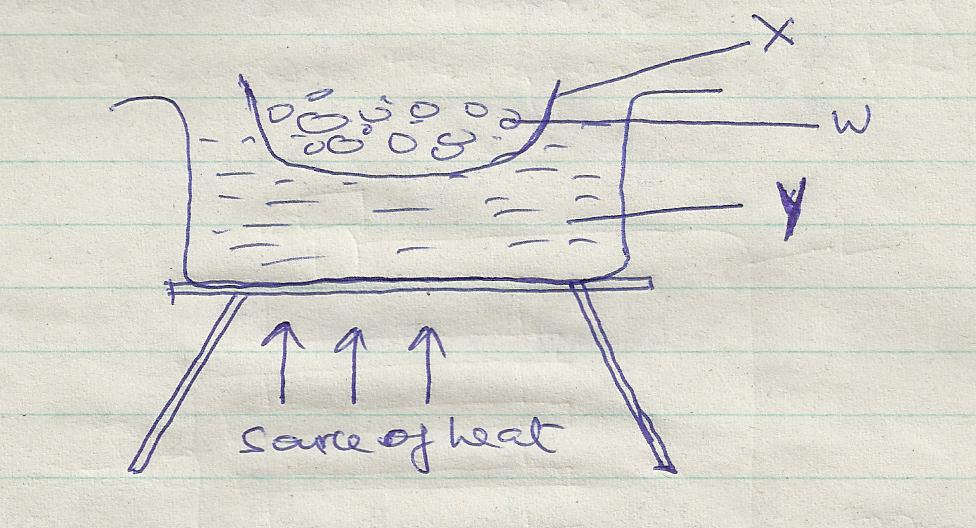
................................................................................................................................................................................................................................................................................................................................................

c. Name two problems associated with the type of cooling system illustrated above(2mrks)

(i)

(ii)

18. Below is an illustration of a method of extracting honey from combs .Study the diagram and answer the question that follow .



1. Indentify the above method of extracting honey (1mrk)

........................................................................................................................................................................................................................................................................................................................

1. Give a reason why container x should not be heated directly (1mrk

........................................................................................................................................................................................................................................................................................................................

1. Name the parts labeled w and y(2mrks)

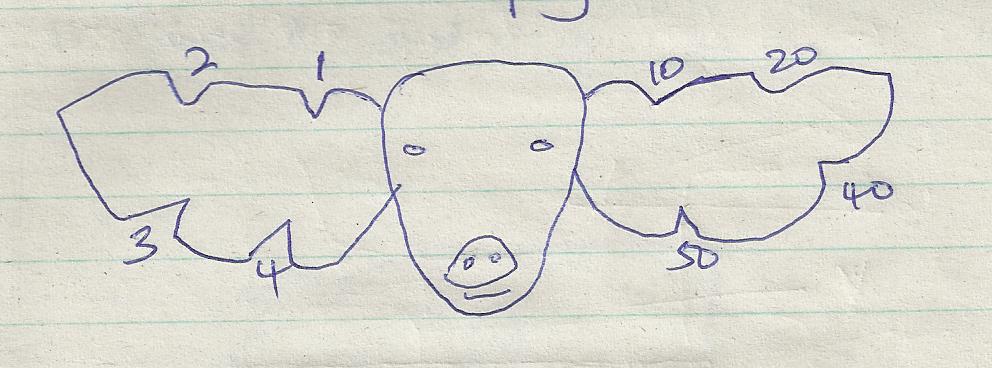
w

y

1. Besides the above method ,State one other method of extracting honey (1mrk)

........................................................................................................................................................................................................................................................................................................................

19The diagram below shows a certain practice carried out on pig



1. Identify the practice illustrated above (1mrk)

........................................................................................................................................................................................................................................................................................................................

1. Draw another illustration depicting pig number 37(1mrk)
2. Name the tool used to carry out the practice illustrated above (1mrk)

........................................................................................................................................................................................................................................................................................................................

1. State two other method of indentifying piglet (2mrks)

i)

ii)

20 .Below an illustration of a farm operation .Study it carefully and answer the question that follow.



1. Identify the activity being carried out (1mrk)

......................................................................................................................................................................................................................................................................................................................................................

1. Give one other activity carried on the animal before the above operation is carried out (1mrk)

......................................................................................................................................................................................................................................................................................................................................................

1. Outline the procedure of carrying out the above operation (3mrks)

......................................................................................................................................................................................................................................................................................................................................................

......................................................................................................................................................................................................................................................................................................................................................

......................................................................................................................................................................................................................................................................................................................................................

**SECTION C**

**Answer any two questions in the space provided**

21. Outline management practice carried out in a fish pond to ensure maximum harvest of fish (7mrlk)

................................................................................................................................................................................................................................................................................................................................................................................

................................................................................................................................................................................................................................................................................................................................................................................

................................................................................................................................................................................................................................................................................................................................................................................

................................................................................................................................................................................................................................................................................................................................................................................

b) Discuss the importance of farm mechanization (6mrks

................................................................................................................................................................................................................................................................................................................................................................................

................................................................................................................................................................................................................................................................................................................................................................................

................................................................................................................................................................................................................................................................................................................................................................................

c) Discuss the short term maintenance practices carried out on a tractor (7 marks)

................................................................................................................................................................................................................................................................................................................................................................................

................................................................................................................................................................................................................................................................................................................................................................................

................................................................................................................................................................................................................................................................................................................................................................................

................................................................................................................................................................................................................................................................................................................................................................................

................................................................................................................................................................................................................................................................................................................................................................................

22. (a) Explain the feature of a piggery unit (10mrks)

................................................................................................................................................................................................................................................................................................................................................................................

................................................................................................................................................................................................................................................................................................................................................................................

................................................................................................................................................................................................................................................................................................................................................................................

................................................................................................................................................................................................................................................................................................................................................................................

................................................................................................................................................................................................................................................................................................................................................................................

................................................................................................................................................................................................................................................................................................................................................................................

................................................................................................................................................................................................................................................................................................................................................................................ ................................................................................................................................................................................................................................................................................................................................................................................

................................................................................................................................................................................................................................................................................................................................................................................

1. Explain the factor that influence the work output of a draught animal(10mrks)

......................................................................................................................................................................................................................................................................................................................................................

......................................................................................................................................................................................................................................................................................................................................................

......................................................................................................................................................................................................................................................................................................................................................

...........................................................................................................................................................................

................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................. ........................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................

23. a)Outline various method of controlling ticks(10 mrks) ................................................................................................................................................................................................................................................................................................................................................................................

................................................................................................................................................................................................................................................................................................................................................................................

........................................................................................................................................................................................

................................................................................................................................................................................................................................................................................................................................................................................

................................................................................................................................................................................................................................................................................................................................................................................

................................................................................................................................................................................................................................................................................................................................................................................

................................................................................................................................................................................................................................................................................................................................................................................

1. Describe the management of growers up to the point of lay (10mrks)

................................................................................................................................................................................................................................................................................................................................................................................

................................................................................................................................................................................................................................................................................................................................................................................

................................................................................................................................................................................................................................................................................................................................................................................

................................................................................................................................................................................................................................................................................................................................................................................

................................................................................................................................................................................................................................................................................................................................................................................

................................................................................................................................................................................................................................................................................................................................................................................ ................................................................................................................................................................................................................................................................................................................................................................................

................................................................................................................................................................................................................................................................................................................................................................................

................................................................................................................................................................................................................................................................................................................................................................................

................................................................................................................................................................................................................................................................................................................................................................................